

# TERA

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May 16, 1984

PRINCIPAL STAFF			
✓ RA	✓	DPRP	
D/RA		DE	
A/RA		DRMSP	
RC		DRMA	
PAO		SCS	orig + 3 ✓
SGA		ML	
ENF		File	✓

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Mr. D. G. Eisenhut  
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Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Re: Docket Nos. 50-329 OM, OL and 50-330 OM, OL  
Midland Nuclear Plant - Units 1 and 2  
Independent Design and Construction Verification (IDCV) Program  
Twelfth Monthly Status Report

Gentlemen:

Attached is our twelfth Monthly Status Report covering the period from April 1, 1984 through April 30, 1984. Included in this report are:

- Introduction and Purpose
- Midland IDCV Program Status Summary
  - Programmatic Activities (including project chronology)
  - Design Verification Activities
  - Construction Verification Activities
- Confirmed and Resolved Item Reports, Finding Reports and Finding Resolution Reports
- Financial Status Report (CPC only)

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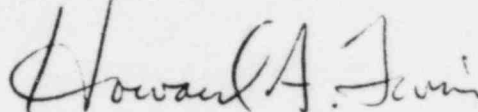
Mr. J. W. Cook  
Mr. J. G. Keppler  
Mr. D. G. Eisenhut

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May 16, 1984

Our next OCR/Finding status review meeting will be held in mid-June at Bechtel's Ann Arbor, Michigan offices. A meeting notice and agenda will be issued as soon as the meeting is scheduled.

Sincerely,



Howard A. Levin  
Project Manager  
Midland IDCV Program

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IDCV Program Service List

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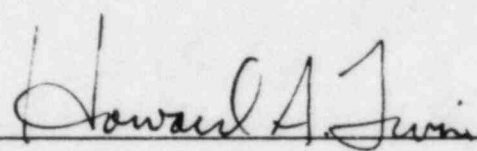
MIDLAND INDEPENDENT DESIGN AND CONSTRUCTION VERIFICATION PROGRAM  
MONTHLY STATUS REPORT  
NUMBER 12  
PERIOD APRIL 1, 1984 THROUGH APRIL 30, 1984

Prepared by:

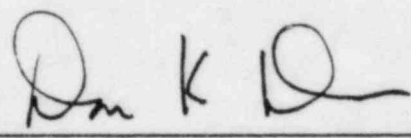
  
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Manager, Construction Verification

Reviewed by:

  
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Project Manager

Approved by:

  
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Principal-in-Charge

MIDLAND INDEPENDENT DESIGN AND CONSTRUCTION  
VERIFICATION PROGRAM (IDCV)

MONTHLY STATUS REPORT

NUMBER 12

PERIOD APRIL 1, 1984 THROUGH APRIL 30, 1984

1.0 INTRODUCTION AND PURPOSE

Monthly Status Reports have been instituted by agreement between the Consumers Power Company (CPC), the Nuclear Regulatory Commission (NRC) and TERA to provide parties external to TERA's IDCV project team with up-to-date information relative to program progress and any important issues identified during the reporting period. This report covers the period from April 1, 1984 through April 30, 1984. A description of the scope, reporting periods and report issuance dates for Monthly Status Reports, as well as a summary of the background of the IDCV program were presented in the initial Monthly Status Report dated May 27, 1983.

2.0 IDCV PROGRAM STATUS SUMMARY

2.1 Programmatic Activities

Attachment I provides an updated chronology of major project milestones. The project chronology from inception through the beginning of this reporting period can be found in the previous Monthly Status Reports. Several milestones warrant special highlight.

An IDCVP project meeting was held on the dates of April 9 and 10, 1984. The meeting attendees included the TERA Senior Review Team, project manager, and TERA principals contributing to and managing the IDCVP system reviews. The purpose of the meeting was to scrutinize system review progress in order to enable an early identification of any programmatic issues which could potentially impact preparation of the IDVP system topical reports. For identified issues, work plans and associated schedules were developed and implemented.



On April 17, 1984, principal TERA personnel participating in the civil/structural review area met with personnel from the NRC, CPC, and SMA to assess the potential applicability of the SMA Seismic Margins Evaluation (SME) to the disposition of outstanding civil/structural OCRs. The items addressed during the meeting were as documented in TERA's letter of April 18, 1984, and are currently under detailed review by cognizant IDCVP personnel to determine their applicability in addressing the disposition of identified civil/structural issues.

During the last week in April, ICV reviewers were at the Midland site to commence their review of selected portions of the Quality Verification Program and to witness maintenance activities being initiated for the purpose of inspection and refurbishment of the AFW pumps. TERA personnel were afforded the opportunity to meet with key QVP management personnel as a first step in the QVP review. TERA reviewers also established the necessary liaison with key Bechtel personnel supervising the AFW pump activities. Section 2.3 of this report, Construction Verification Activities, provides more detailed discussions concerning progress made by ICV reviewers participating in the aforementioned activities.

An OCR status review meeting was not held during the month of April. The review meeting was delayed until May 3 to permit additional work in response to outstanding items.

## 2.2 Design Verification Activities

### 2.2.1 Summary

The major activities during April included dispositioning of OCRs, continuation of the preparation of the AFW and CR-HVAC reports, and initiation of activities associated with verification of the Bechtel seismic/structural model. A meeting among CPC, SMA, NRC, and TERA was held to determine the potential applicability of the SMA Seismic Margins Evaluation (SME) to the dispositioning of various civil/structural OCRs/Findings. Following the meeting, the computer model for the auxiliary building seismic analysis was obtained. TERA initiated work to load the model on its computer and is developing a plan for use of the

model in the dispositioning of OCRs in the civil/structural area. Planning commenced in April for the initiation of activities subject to the completion plans and procedures discussed at the March 13 public meeting and presented in last month's status report. The procedures used to conduct this effort will be issued in May and will be implemented at that time. It is noted that formal NRC concurrence with this approach has not yet been received.

#### 2.2.2 Auxiliary Feedwater System Progress

Work continued on completion of a topical report covering AFW System Performance Requirements topics. In the civil/structural review area, progress was made in dispositioning of OCRs, primarily as a result of the April 17 meeting at which TERA obtained information regarding the SMA Seismic Margins Evaluation. Subsequently, TERA obtained the auxiliary building seismic model and initiated work for the development of a plan for using the model to disposition OCRs. The computer tapes were received in April, read, and initial installation on the TERA computer completed during April. Software testing will be completed in May, at which time a program for alternate calculations will be initiated. The results of this program will be used to determine the significance of identified OCRs.

#### 2.2.3 SEP System Progress

Dispositioning of OCRs continued in April with the receipt of additional information from Bechtel. These responses and those previously received are being reviewed. Internal reviews of draft engineering evaluations are continuing, and the draft engineering evaluation for the diesel generator and power distribution system Electrical Characteristics and Protective Devices/Settings review topics has been completed. Calculations QPE-5(Q) and QPE-7(Q) were obtained from Bechtel. TERA has requested additional information regarding the 125V DC battery charger and the 120V AC inverter.

#### 2.2.4 Control Room HVAC Progress

The verification of engineering evaluations is continuing, and comments from that verification process are being incorporated into the final engineering evaluations. The topical report for control room HVAC has reached the preliminary draft stage. The report is being finalized as OCRs are dispositioned and internal reviews completed. The status of the structural review associated with the control room HVAC is discussed in Section 2.2.2 of this report.

#### 2.3 Construction Verification Activities

During April, ICV reviewers initiated site interviews and the collection of pertinent reports and data as part of the review of selected portions of the Quality Verification Program (QVP). Concurrent with site activities associated with the QVP review, ICV reviewers were on-site, per notification by Bechtel, to witness the tear down, inspection, and refurbishment of the Unit 2 AFW pumps. The witnessing of the AFW pump activities is required by the resolution to Finding F-046 concerning Storage and Maintenance as applied to the Unit 2 AFW pumps and pump turbine. A more detailed breakdown of activities undertaken by ICV reviewers during this reporting period is as follows.

- ICV reviewers during the last week in April and first week in May conducted detailed interviews with key CPC personnel who are instrumental in directing the efforts of personnel involved in the QVP. The interviews were focused upon obtaining more detailed information concerning how the QVP objectives and Program Document are being achieved and executed. Reports, procedures, and explanatory dialogue were obtained and noted. TERA personnel are currently assimilating the acquired information as a first step in the evaluation process.
- At the inception of the site interview process, ICV reviewers provided principal QVP personnel a brief outline defining the nature and objectives of the ICV review of the QVP. Succinctly stated, the focus of the review is on gaining an understanding of the information



sources, program reports, functional interfaces, and document storage and retention practices to enable verification of relevant quality documentation. Verification of the completeness, validity, availability, and security of the QVP products in addition to the methods used to integrate these products with other activities of the Construction Completion Program (e.g., aspects of the physical installation) is important to reaching a conclusion on the quality of constructed products.

As of the writing of this report, ICV reviewers have completed the majority of their interviews. The remaining tasks are focused principally upon a review and evaluation of the process being undertaken to assemble that body of documentation required by the QVP to verify the quality of accessible and inaccessible attributes of installed components and commodities.

- Concurrent with ICV efforts undertaken at the site in reviewing the QVP, TERA personnel were on site to witness the program undertaken to tear down, inspect, and refurbish the Unit 2 AFW pumps. During the last week in April, ICV reviewers established contact with cognizant Bechtel personnel to become aware of the details and scheduling of the AFW pump inspection and refurbishment work efforts and during the first week in May witnessed work on the Unit 2 AFW pumps.
- Near term activities relate to completing the review and evaluation of AFW pump inspection and refurbishment activities and documenting the results of the ICV evaluation of those elements of the QVP reviewed to date.

### 3.0 SUMMARY OF CONFIRMED AND RESOLVED ITEM REPORTS, FINDINGS REPORTS, AND FINDING RESOLUTION REPORTS

Attachment 2 provides TERA's Tracking System Summary for Open, Confirmed, and Resolved (OCR) Item Reports, Finding Reports, and Finding Resolution Reports. This tool assists TERA in tracking the disposition of issues as they progress through the review process. Items that have changed status or that have been added during the reporting period are noted with an asterisk. Attachment 3 provides retyped copies of the current period Confirmed Item and Finding Reports. The following paragraphs discuss items which have changed status in the past month.

During April, a new Confirmed Item and two new Findings were identified. A previous Open Item was resolved. The status of disposition of OCRs/Findings for the IDCVP from inception through April 30, 1984 can be summarized as shown on Attachment 4.

Finding F-171 addresses an inconsistency noted in the procedure utilized to calculate stresses resulting from thermal gradients in slabs and walls which may result in an underestimation of the slab stresses. Previously, this issue was documented as one of several issues associated with Confirmed Item C-117.

Finding F-156, also in the civil/structural review area, identifies a drawing configuration which permits loads and load combinations on embedded channels that induce stresses which exceed the design allowable producing the potential for an overstressed condition on the embedded channels.

Confirmed Item C-172 identifies the potential for limitations in the design of the electrical power system not being reflected in the FSAR and other documentation.

## ATTACHMENT I

### CHRONOLOGY

#### MIDLAND INDEPENDENT DESIGN AND CONSTRUCTION VERIFICATION PROGRAM

#### TERA PROJECT 3201

PERIOD APRIL 1, 1984 THROUGH APRIL 30, 1984

<u>Date</u>	<u>Milestone</u>
April 4, 1984	Meeting summary issued documenting the Eighth OCR Status Review Meeting held on March 28, 1984 at Bechtel's Ann Arbor, Michigan offices.
April 10, 1984	Notice issued for meeting to discuss SMA Seismic Margins Evaluation to be held in Chicago, Illinois.
April 17, 1984	Meeting with SMA, TERA, NRC, and CPC to discuss details of SMA Seismic Margins Evaluation of the Midland Plant. Meeting held in Chicago, Illinois.
April 17, 1984	Eleventh Monthly Status Report issued.
April 18, 1984	Meeting Summary issued documenting the April 17, 1984 meeting with SMA et al to discuss Seismic Margins Evaluation.
April 24-27, 1984	ICV reviewers at the Midland site conducting QVP review and witnessing inspection and refurbishment of AFW pumps.
April 25, 1984	Meeting notice issued for Ninth OCR Status Review Meeting to be held on May 3, 1984 at Bechtel's Ann Arbor, Michigan offices.
April 30 - May 4, 1984	IDV reviewers at Bechtel's Ann Arbor offices reviewing civil/structural topics.

# ATTACHMENT 2

## OCR, FINDING REPORT, AND FINDING RESOLUTION REPORT TRACKING SYSTEM MIDLAND INDEPENDENT DESIGN AND CONSTRUCTION VERIFICATION PROGRAM 5/16/84

<u>OCR No.</u>	<u>Resp. LTR</u>	<u>Potential Open Item</u>	<u>Open Item</u>	<u>Confirmed Item</u>	<u>Resolved Item/ Observation</u>	<u>Finding Report</u>	<u>Finding Resolution Report</u>	<u>Topic</u>	<u>Comments</u>
001	RPS	12/21/83	3/4/83	3/4/83	7/12/83			I.4-1 Tech Specs	
002	RPS	12/21/83	3/4/83	3/4/83	7/12/83			I.4-1 Tech Specs	
003	RPS	1/3/83	3/4/83		3/4/83			I.8-1 Overpressure Protection	
004	RPS	1/3/83	3/4/83		3/4/83			I.8-1 Overpressure Protection	
005	FAD	1/4/83	3/4/83	3/4/83				I.1-1 System Operating Limits	
006	RPS	1/12/83	3/4/83		3/4/83			I.2-1 Acc. Anal. Consid.	
007	RPS	1/12/83	3/4/83		3/4/83			I.2-1 Acc. Anal. Consid.	
008	LB	1/19/83	3/4/83		7/12/83			I.19-1 Control Systems	
009	JAM	1/20/83	3/4/83		3/4/83			II.1-1 Seismic Design	
010	FAD	1/20/83	3/4/83	4/14/83	7/12/83			I.10-1 Hydraulic Design	
011	LB	1/27/83	3/4/83	3/4/83	8/8/83			I.19-1 Control Systems	
012	LB	2/7/83	3/4/83	3/4/83		7/12/83	9/30/83	I.15-1 Power Supplies	
013	RPS	2/8/83	3/4/83		7/12/83			I.5-1 Syst. Align./Switchover	

\* Change in Status During Reporting Period

OCR, FINDING REPORT, AND FINDING RESOLUTION REPORT TRACKING SYSTEM  
MIDLAND INDEPENDENT DESIGN AND CONSTRUCTION VERIFICATION PROGRAM  
5/16/84 (continued)

<u>OCR No.</u>	<u>Resp. LTR</u>	<u>Potential Open Item</u>	<u>Open Item</u>	<u>Confirmed Item</u>	<u>Resolved Item/ Observation</u>	<u>Finding Report</u>	<u>Finding Resolution Report</u>	<u>Topic</u>	<u>Comments</u>
014	RPS	2/8/83	3/4/83		7/12/83			I.5-I Syst. Align./Switchover	
015	JAM	2/10/83	3/4/83	10/11/83		3/15/84		III.1-I Seismic Design/Input to Equipment	
016	JAM	2/10/83	3/4/83		2/13/84			III.5-I Civil/Str. Design Consid.	
017	FAD	2/17/83	3/4/83	3/4/83	10/5/83			I.II-I Heat Removal Cap	
018	FAD	2/17/83	3/4/83	3/4/83		11/11/83	11/11/83	I.I0-I Hydraulic Design I.II-I Heat Removal Cap.	
019	LB	2/21/83	3/4/83		8/8/83			I.I8-I Instrumentation	
020	FAD	2/24/83	3/4/83	3/4/83	11/11/83			I.II-I Heat Removal Cap. I.9-I Comp. Func. Req. II.I0-I Eq. Qual.	B-080 Related
021	FAD	2/24/83	3/4/83		4/9/84			I.I9-I Control Syst.	
022	LB	2/24/83	3/4/83	8/8/83	4/5/84			I.I8-I Instrumentation	
023	LB	2/28/83	3/4/83		8/8/83			I.I9-I Control	
024	RPS	3/1/83	3/4/83		2/13/84			I.2-I Acc. Anal. Consid.	



OCR, FINDING REPORT, AND FINDING RESOLUTION REPORT TRACKING SYSTEM  
MIDLAND INDEPENDENT DESIGN AND CONSTRUCTION VERIFICATION PROGRAM  
5/16/84 (continued)

<u>OCR No.</u>	<u>Resp. LTR</u>	<u>Potential Open Item</u>	<u>Open Item</u>	<u>Confirmed Item</u>	<u>Resolved Item/ Observation</u>	<u>Finding Report</u>	<u>Finding Resolution Report</u>	<u>Topic</u>	<u>Comments</u>
025	RPS	3/1/83	3/4/83	3/4/83	2/13/84			I.2-I Acc. Anal. Consid.	
026	FAD	3/1/83	3/4/83	11/11/83	3/5/84			I.8-I Overpress. Prot.	
027	FAD	3/1/83	3/4/83	3/4/83	11/11/83			I.9-I Comp. Func. Req. II.9-I Env. Eng.	
028	FAD	3/2/83	3/4/83	4/14/83	11/11/83			I.9-I Comp. Func. Req.	
029	LB	2/22/83	3/4/83		3/4/83			I.18-I Instrumentation I.19-I Control System	
030	LB	1/19/83	3/4/83		3/4/83			I.19-I Control System	
031	DBT	2/11/83	3/4/83	3/4/83		8/30/83		I.3-Ic Pipe Supports	C-31, Rev. 1, 7/12/83
032	DBT	2/11/83	3/4/83	3/4/83		7/12/83	7/12/83	I.3-Ic Pipe Supports	C-32, Rev. 1, 7/12/83
033	DBT	2/11/83	3/4/83	3/4/83		7/12/83	7/12/83	I.3-Ic Pipe Supports	C-33, Rev. 1, 7/12/83
034	DBT	2/11/83	3/4/83	3/4/83		7/12/83	7/12/83	I.3-Ic Pipe Supports	C-34, Rev. 1, 7/12/83
035	DBT	2/11/83	3/4/83	3/4/83		7/12/83	7/12/83	I.3-Ic Pipe Supports	C-35, Rev. 2, 7/12/83
036	JAM	2/11/83	3/4/83	3/4/83		7/12/83		II.2-I Pressure Boundary	C-36, Rev. 2, 7/12/83

OCR, FINDING REPORT, AND FINDING RESOLUTION REPORT TRACKING SYSTEM  
MIDLAND INDEPENDENT DESIGN AND CONSTRUCTION VERIFICATION PROGRAM  
5/16/84 (continued)

<u>OCR No.</u>	<u>Resp. LTR</u>	<u>Potential Open Item</u>	<u>Open Item</u>	<u>Confirmed Item</u>	<u>Resolved Item/ Observation</u>	<u>Finding Report</u>	<u>Finding Resolution Report</u>	<u>Topic</u>	<u>Comments</u>
037	JAM	1/20/83	3/4/83	3/4/83	8/30/83			III.1-1 Seismic Design/Input to Equipment	
038	FAD	3/1/83	3/4/83	3/4/83	4/9/84			I.9-1 Component Functional Requirements	
039	LB	3/30/83	4/14/83	8/30/83	2/13/84			II.10-1 Env. Eq. Qual.	
040	LB	3/8/83	4/14/83	9/30/83	2/13/84			I.16-1 Elec. Characteristics	
041	LB	3/25/83	4/14/83		9/30/83			I.15-1 Power Supplies	
042	LB	3/31/83	4/14/83		9/30/83			I.10-1 Env. Eq. Qual.	
043	FAD	3/15/83	4/14/83	10/6/83		12/2/83	3/5/84	I.10-1 System Hydraulic Design	
044	FAD	3/15/83	4/14/83		10/6/83			II.10-1 Env. Eq. Qual.	Resolved as Observation
045	DBT	3/17/83	4/14/83	5/25/83		8/8/83	11/11/83	II.1-1C Electrical Equipment/ Storage & Maintenance	C-45, Rev. 1, 7/12/83
046	DBT	3/17/83	4/14/83	5/25/83		8/8/83	11/11/83	I.1-1C Mechanical Equipment/ Storage & Maintenance	
047	DBT	7/7/83	7/26/83	8/8/83		8/30/83		I.1-1C Mechanical Equipment/ Storage & Maintenance	C-47, Rev. 1, 8/30/83

OCR, FINDING REPORT, AND FINDING RESOLUTION REPORT TRACKING SYSTEM  
MIDLAND INDEPENDENT DESIGN AND CONSTRUCTION VERIFICATION PROGRAM  
5/16/84 (continued)

<u>OCR No.</u>	<u>Resp. LTR</u>	<u>Potential Open Item</u>	<u>Open Item</u>	<u>Confirmed Item</u>	<u>Resolved Item/ Observation</u>	<u>Finding Report</u>	<u>Finding Resolution Report</u>	<u>Topic</u>	<u>Comments</u>
048	FAD	7/29/83	7/29/83	8/8/83				11.10-1 Environmental Equipment Qualification	
049	RC	8/28/83	8/29/83	8/29/83		11/11/83		11.4-1c Cable	
050	RC	8/28/83	8/29/83	8/29/83		11/11/83		11.4-1c Cable	
051	JAM	8/12/83	8/30/83		8/30/83			11.1-1 Seismic Design/Input to Equipment	
052	DBT	9/30/83	9/30/83	9/30/83		12/1/83		All ICV Topics for AFW	Supplier Doc
053	FEP	9/27/83	9/29/83	9/29/83		12/1/83		All ICV Topics for AFW	Const./Installation Documentation
054	FEP	9/27/83	9/29/83	9/29/83		12/1/83		All ICV Topics for AFW	Const./Installation - PQCs
055	DBT	9/19/83	9/29/83	11/11/83		12/1/83		All ICV Topics	Const./Installation Documentation - WPs & PQRs
056	DBT	9/26/83	9/29/83	11/11/83		12/1/83		All ICV Topics for AFW & SEP	Supplier/Doc. - Materials
057	DW	9/29/83	9/30/83		9/30/83			1.34-3 Pressurization	Resolved as Observation

OCR, FINDING REPORT, AND FINDING RESOLUTION REPORT TRACKING SYSTEM  
MIDLAND INDEPENDENT DESIGN AND CONSTRUCTION VERIFICATION PROGRAM  
5/16/84 (continued)

<u>OCR No.</u>	<u>Resp. LTR</u>	<u>Potential Open Item</u>	<u>Open Item</u>	<u>Confirmed Item</u>	<u>Resolved Item/ Observation</u>	<u>Finding Report</u>	<u>Finding Resolution Report</u>	<u>Topic</u>	<u>Comments</u>
058	DW	10/6/83	10/6/83		5/7/84			I.12-3 Cooling/Heating Requirements	*
059	RPS	3/11/83			9/30/83			I.3-1 Single Failure I.23-1 Failure Modes & Effects	Resolved as Observation
060	DW	9/29/83	9/30/83		3/12/84			I.1-3 System Operating Limits	
061	DW	9/29/83			9/30/83			I.18-3 Instrumentation	Resolved as Observation
062	FAD	9/30/83	9/30/83					I.9-1 Comp. Func. Req.	
063	FAD	10/5/83			10/6/83			I.10-1 System Hydraulic Design	Resolved as Observation
064	FAD	10/5/83			10/6/83			I.10-1 System Hydraulic Design	Resolved as Observation
065	FAD	10/4/83	10/6/83					All IDV Topics	
066	DW	9/29/83	10/6/83	10/6/83	11/30/83			I.5-3 System Alignment/Switchover I.7-3 System Isolation/Interlocks	
067	DW	9/29/83	9/30/83		9/30/83			I.34-3 Pressurization	Resolved as Observation
068	JAM	9/27/83	9/30/83	9/30/83				II.4-1 EQ/Seismic	

OCR, FINDING REPORT, AND FINDING RESOLUTION REPORT TRACKING SYSTEM  
MIDLAND INDEPENDENT DESIGN AND CONSTRUCTION VERIFICATION PROGRAM  
5/16/84 (continued)

<u>OCR No.</u>	<u>Resp. LTR</u>	<u>Potential Open Item</u>	<u>Open Item</u>	<u>Confirmed Item</u>	<u>Resolved Item/ Observation</u>	<u>Finding Report</u>	<u>Finding Resolution Report</u>	<u>Topic</u>	<u>Comments</u>
069	JAM	9/27/83	9/30/83	12/14/83				II.4-1 EQ/Seismic	
070	JAM	9/27/83	9/30/83		12/14/83			I.4-1 EQ/Seismic	Consolidated with C-069
071	JAM	9/27/83	9/30/83	12/14/83	03/5/84			III.1-1 Seismic Design/ Input to Equipment	Resolved conditional on calc control verif., see also C-085.
072	FAD	9/30/83	10/6/83					I.9-1 Comp. Func. Req. II.2-1 Seismic Design - Pressure Boundary	
073	DW	9/29/83	10/6/83	10/6/83	11/11/83			I.12-3 Cooling/Heating Requirements	OCR-058 related
074	DW	9/29/83	10/6/83	10/6/83	2/13/83			I.1-3 System Operating Limits I.2-3 Acc. Anal. Consid. I.15-3 Power Supplies	
075	DW	9/29/83	10/6/83	10/6/83	1/6/84			I.1-3 System Operating Limits I.2-3 Acc. Anal. Consid.	
076	DW	9/29/83	10/6/83	10/6/83	1/6/84			I.12-3 Cooling/Heating Requirements	
077	JAM	9/27/83	10/6/83	10/6/83				II.4-1 EQ/Seismic	
078	FAD	9/30/83	10/6/83					I.9-1 Comp. Func. Req.	



OCR, FINDING REPORT, AND FINDING RESOLUTION REPORT TRACKING SYSTEM  
MIDLAND INDEPENDENT DESIGN AND CONSTRUCTION VERIFICATION PROGRAM  
5/16/84 (continued)

<u>OCR No.</u>	<u>Resp. LTR</u>	<u>Potential Open Item</u>	<u>Open Item</u>	<u>Confirmed Item</u>	<u>Resolved Item/ Observation</u>	<u>Finding Report</u>	<u>Finding Resolution Report</u>	<u>Topic</u>	<u>Comments</u>
079	JAM	8/29/83	10/6/83					III.5-1 Civil/Structural Design Considerations III.6-1 Foundations	
080	FAD	11/1/83			11/11/83			I.9-1 Comp. Func. Req.	Resolved as Observation
081	FAD	11/1/83	11/11/83	11/11/83	2/13/84			II.2-1 Pressure Boundary I.9-1 Comp. Func. Req.	See also Observa- tions B-142 and B-143
082	DW	10/18/83	11/11/83		3/12/84			I.9-3 Comp. Func. Req.	Chemical Conc./ Dow Interface
083	DW	10/31/83	11/11/83		3/5/84			I.2-3 Acc. Anal. Consid.	
084	DW	10/31/83	11/11/83	11/11/83				I.2-3 Acc. Anal. Consid.	
085	DW	10/31/83	11/11/83	11/11/83				All IDV Topics	Noted issues iden- tified in CR-HVAC review
086	FAD	10/13/83			11/11/83			II.12-1 Fire Protection	Resolved as Observation
087	FAD	10/13/83	11/11/83	11/11/83				II.12-1 Fire Protection	
088	FAD	10/13/83	11/11/83	11/11/83				II.12-1 Fire Protection	

OCR, FINDING REPORT, AND FINDING RESOLUTION REPORT TRACKING SYSTEM  
MIDLAND INDEPENDENT DESIGN AND CONSTRUCTION VERIFICATION PROGRAM  
5/16/84 (continued)

<u>OCR No.</u>	<u>Resp. LTR</u>	<u>Potential Open Item</u>	<u>Open Item</u>	<u>Confirmed Item</u>	<u>Resolved Item/ Observation</u>	<u>Finding Report</u>	<u>Finding Resolution Report</u>	<u>Topic</u>	<u>Comments</u>
089	FAD	10/13/83	11/11/83	11/11/83				II.12-1 Fire Protection	C-089, Rev. 1 11/29/83
090	FAD	10/13/83			11/11/83			II.12-1 Fire Protection	Resolved as Observation
091	RSC	10/18/83	11/11/83	11/11/83		12/1/83	3/29/84	I.3-1C Pipe Supports	Overinspection Prog.
092	RSC	10/18/83	11/11/83	11/11/83	3/27/84			I.3-1C Pipe Supports	Overinspection Prog.
093	DBT	11/10/83	11/21/83	11/28/83		3/19/84		IV.2-3C Const. Doc. Review	HVAC Ducts
094	DBT	11/10/83	11/21/83	11/28/83	3/19/84			IV.2-3C Physical Verif.	HVAC Ducts
095	DBT	11/10/83	11/21/83	11/28/83	3/19/84			IV.2-3C Const. Doc. Review	HVAC Welding Docs
096	DBT	11/10/83	11/11/83	11/28/83	3/30/84			IV.2-3C Const. Doc. Review	HVAC Ducts and supports
097	LDB	11/30/83	12/5/83	12/9/83	3/5/84			I.3-3 I.5-3 Single Failure System Alignment	
098	DMW	11/7/83	12/5/83		3/5/84			III.1-1 Seismic Design	See also C-144
099	JAM	11/30/83	12/5/83	12/9/83				III.1-1 Seismic Design	Slab Rotation

OCR, FINDING REPORT, AND FINDING RESOLUTION REPORT TRACKING SYSTEM  
MIDLAND INDEPENDENT DESIGN AND CONSTRUCTION VERIFICATION PROGRAM  
5/16/84 (continued)

<u>OCR No.</u>	<u>Resp. LTR</u>	<u>Potential Open Item</u>	<u>Open Item</u>	<u>Confirmed Item</u>	<u>Resolved Item/ Observation</u>	<u>Finding Report</u>	<u>Finding Resolution Report</u>	<u>Topic</u>	<u>Comments</u>
100	JAM	12/9/83			12/9/83			III.1-1 Seismic Design	Resolved as Observations
101	JAM	11/30/83	12/5/83	12/9/83				III.1-1 Seismic Design	DG-38(Q)
102	JAM	11/30/83	12/5/83	12/9/83	3/5/84			III.1-1 Seismic Design	
103	JAM	11/30/83	12/5/83	12/9/83	3/5/84			III.1-1 Seismic Design	
104	JAM	11/30/83	12/5/83	12/9/83				III.1-1 Seismic Design	Moment of Inertia Calc
105	JAM	11/30/83	12/5/83	12/9/83				III.1-1 Seismic Design	Program CE-207
106	JAM	11/30/83	12/5/83	12/9/83				III.1-1 Seismic Design	Soil Structure Interaction
107	JAM	11/30/83	12/5/83	12/9/83				III.1-1 Seismic Design	Stick Model Assumptions
108	JAM	11/30/83	12/5/83	12/9/83				III.1-1 Seismic Design	Stick Model Input
109	LDB	12/1/83	12/6/83	12/14/83				I.19-2 DG Control	Fuel Lockout
110	LDB	12/1/83	12/6/83	12/14/83				I.24-2 DG Load Capacity	Load Tabulation, Rev. I, 2/28/84
111	GES	12/2/83	12/6/83	12/14/83	3/5/84			I.24-2 DG Load Capacity	Undervoltage

OCR, FINDING REPORT, AND FINDING RESOLUTION REPORT TRACKING SYSTEM  
MIDLAND INDEPENDENT DESIGN AND CONSTRUCTION VERIFICATION PROGRAM  
5/16/84 (continued)

<u>OCR No.</u>	<u>Resp. LTR</u>	<u>Potential Open Item</u>	<u>Open Item</u>	<u>Confirmed Item</u>	<u>Resolved Item/ Observation</u>	<u>Finding Report</u>	<u>Finding Resolution Report</u>	<u>Topic</u>	<u>Comments</u>
112	GES	12/9/83	12/14/83	12/14/83				1.30-2 DG Exhaust	
113	JAM	11/3/83	11/7/83	12/14/83				111.7-1 Conc/steel design	
114	JAM	11/3/83	11/7/83	12/14/83	3/5/84			111.7-1 Conc/steel design	
115	JAM	11/10/83	11/10/83	12/14/83				111.7-1 Conc/steel design	
116	JAM	11/10/83	11/10/83	12/14/83	3/5/84			111.7-1 Conc/steel design	
117	JAM	10/31/83	11/10/83	12/14/83				111.6-1 Foundations 111.7-1 Conc/steel design	
118	JAM	10/31/83			12/14/83			111.6-1 Foundations	Resolved as Observations
119	JAM	10/5/83	11/14/83	12/14/83				11.4-1 Seismic Qual.	
120	JAM	10/26/83	11/14/83	12/14/83				11.4-1 Seismic Qual.	
121	JAM	10/26/83	11/14/83	12/14/83				11.4-1 Seismic Qual.	
122	JAM	10/26/83	11/14/83	12/14/83				11.4-1 Seismic Qual.	
123	DBT	12/20/83	12/28/83					Various ICV topics	
124	DBT	12/20/83	12/28/83					Various ICV topics	
125	JAM	12/30/83	1/6/84	1/6/84				111.1-2 Seismic Design	Stick Model

OCR, FINDING REPORT, AND FINDING RESOLUTION REPORT TRACKING SYSTEM  
MIDLAND INDEPENDENT DESIGN AND CONSTRUCTION VERIFICATION PROGRAM  
5/16/84 (continued)

<u>OCR No.</u>	<u>Resp. LTR</u>	<u>Potential Open Item</u>	<u>Open Item</u>	<u>Confirmed Item</u>	<u>Resolved Item/ Observation</u>	<u>Finding Report</u>	<u>Finding Resolution Report</u>	<u>Topic</u>	<u>Comments</u>
126	DMW	12/19/83			1/6/84			I.2-3 Acc. Anal. Consid.	Air Inleakage, Resolved as Observation
127	DMW	12/20/83			1/6/84			I.9.3 Comp. Func. Req.	Resolved as Observation
128	DMW	12/20/83			1/6/84			I.35-3 Ventilation	Resolved as Observation
129	DMW	12/30/83	1/6/84	1/6/84	3/5/84			I.9-3 Comp. Func. Req.	Damper Isolation Time
130	JAM	12/20/83	1/6/84	1/6/84				III.7-2 Conc/steel design	Source of Seismic Forces
131	JAM	12/20/83	1/6/84	1/6/84				III.6-2 Foundations III.7-2 Conc/steel design	Footing Strips
132	GES	12/9/83	1/6/84	1/6/84	3/5/84			I.26-2 Electrical Load Shedding	Under-Voltage Setpoints
133	GES	12/21/83	1/6/84	1/6/84				I.19-2 DG Control	Pneumatic Control
134	GES	12/29/83	1/6/84	1/6/84	3/5/84			I.7-2 Interlocks	Cross-unit Interface
135	GES	12/29/83	1/6/84	1/6/84				I.7-2 Interlocks	IEEE 308



OCR, FINDING REPORT, AND FINDING RESOLUTION REPORT TRACKING SYSTEM  
MIDLAND INDEPENDENT DESIGN AND CONSTRUCTION VERIFICATION PROGRAM  
5/16/84 (continued)

<u>OCR No.</u>	<u>Resp. LTR</u>	<u>Potential Open Item</u>	<u>Open Item</u>	<u>Confirmed Item</u>	<u>Resolved Item/ Observation</u>	<u>Finding Report</u>	<u>Finding Resolution Report</u>	<u>Topic</u>	<u>Comments</u>
136	GES	12/29/83			1/6/84			1.7-2 Interlocks	Resolved as Observation
137	GES	12/29/83			1/6/84			1.7-2 Interlocks	Resolved as Observation
138	GES	12/29/83			1/6/84			1.7-2 Interlocks	Resolved as Observation
139	GES	12/9/83	1/6/84		2/13/84			1.25-2 DG Load Sequencing	Resolved as Observation
140	GES	12/15/83	1/6/84					111.8-2 Oil Tanks	
141	GES	12/23/83	1/6/84	2/13/84				1.19-2 DG Controls	
142	FAD	1/16/84			2/13/84			All IDV Topics	Resolved as Observation, see also C-081
143	FAD	1/26/84			2/13/84			AFW System	Resolved as Observation, see also C-081
144	DW	1/18/84	2/13/84	2/13/84				11.2-1 Pressure Boundary 11.3-1 Pipe Support	

OCR, FINDING REPORT, AND FINDING RESOLUTION REPORT TRACKING SYSTEM  
MIDLAND INDEPENDENT DESIGN AND CONSTRUCTION VERIFICATION PROGRAM  
5/16/84 (continued)

<u>OCR No.</u>	<u>Resp. LTR</u>	<u>Potential Open Item</u>	<u>Open Item</u>	<u>Confirmed Item</u>	<u>Resolved Item/ Observation</u>	<u>Finding Report</u>	<u>Finding Resolution Report</u>	<u>Topic</u>	<u>Comments</u>
145	DW	1/25/84	1/25/84	4/9/84				I.19-3 Control Systems	
146	GES	1/20/84	2/13/84	2/13/84				I.19-2 DG Control Systems I.29-2 DG Starting Mechanism and Air Supply System	
147	GES	1/20/84	2/13/84	2/13/84				I.20-2 DG Actuation Systems	
148	GES	2/7/84	2/13/84	2/13/84				I.12-2 Fire Protection	
149	GES	12/30/83	2/13/84	2/13/84				I.12-2 Fire Protection	
150	GES	12/30/83	2/13/84	2/13/84				II.12-2 Fire Protection	
151	GES	1/10/84			2/13/84			I.4-2 Technical Specs	Resolved as Observation
152	FAD	1/17/84			2/13/84			I.2-1 Accident Analysis Considerations	Resolved as Observation
153	LDB	2/10/84	2/13/84	2/13/84	3/12/84			I.19-1 AFW Control Systems	
154	GES	2/10/84	2/13/84					II.12-2 Fire Protection	

OCR, FINDING REPORT, AND FINDING RESOLUTION REPORT TRACKING SYSTEM  
MIDLAND INDEPENDENT DESIGN AND CONSTRUCTION VERIFICATION PROGRAM  
5/16/84 (continued)

<u>OCR No.</u>	<u>Resp. LTR</u>	<u>Potential Open Item</u>	<u>Open Item</u>	<u>Confirmed Item</u>	<u>Resolved Item/ Observation</u>	<u>Finding Report</u>	<u>Finding Resolution Report</u>	<u>Topic</u>	<u>Comments</u>
155	JAM	2/25/84			3/5/84			III.1-1 Seismic Design/Input to Equipment	Resolved as Observation
156	CM	2/25/84	3/12/84	3/12/84		4/10/84		II.3-1, 2, 3 Seismic Design, Pipe/Eq. Supt. III.7-1, 2, 3 C/S Design Cons., Conc/St. Design	*
157	JAM	2/25/84	3/12/84	3/12/84				III.1-1 Seismic Design/Input to Equipment	
158	FAD	3/2/84			3/12/84			I.10-1 System Hydraulic Design	Resolved as Observation
159	GES	2/15/84			3/12/84			I.26-2 Load Shed	Resolved as Observation
160	GES	4/2/84	4/10/84					I.16-2 Elec. Character.	
161	GES	4/2/84	4/10/84	4/10/84				I.16-2 Elec. Character.	
162	GES	3/13/84	4/10/84	4/10/84				I.16-2 Elec. Character.	
163	GES	3/13/84	4/10/84	4/10/84				All DG Topics SEP	
164	GES	3/13/84	4/10/84					I.2 d Cap (DC)	
165	GES	3/13/84	4/10/84	4/10/84				I.16-2 Character.	

OCR, FINDING REPORT, AND FINDING RESOLUTION REPORT TRACKING SYSTEM  
MIDLAND INDEPENDENT DESIGN AND CONSTRUCTION VERIFICATION PROGRAM  
5/16/84 (continued)

<u>OCR No.</u>	<u>Resp. LTR</u>	<u>Potential Open Item</u>	<u>Open Item</u>	<u>Confirmed Item</u>	<u>Resolved Item/ Observation</u>	<u>Finding Report</u>	<u>Finding Resolution Report</u>	<u>Topic</u>	<u>Comments</u>
166	GES	3/13/84			4/10/84			II.3-2 Pipe/Eq/ Support	Resolved as Observation
167	DW	3/20/84	4/9/84					I.12-3 Cooling/Heating Req. I.9-3 Comp. Func. Req.	
168	CPM	3/28/84	4/9/84	4/9/84				II.3-3 Duct Support	
169	CPM	3/29/84	4/9/84	4/9/84				III.1-1 Seismic Design/ Input to Equip.	
170	CPM	3/28/84	4/9/84	4/9/84				II.3-3 Duct Support	
171	JAM	10/31/83	11/10/83	12/14/83		4/10/84		III.7-1 Conc/Steel Design	* Previously identified as one of several issues associated with C-112 (Thermal Stresses)
172	GES	4/26/84	4/10/84	5/10/84				I.16-2 Elec. Charact.	*

**ATTACHMENT 3**

**CURRENT PERIOD CONFIRMED  
ITEM REPORTS AND FINDING REPORTS**



**MIDLAND INDEPENDENT DESIGN AND CONSTRUCTION VERIFICATION  
FINDING REPORT**

CLASS: SAFETY X NON-SAFETY \_\_\_\_\_

FILE NO. 3201-008  
DOC NO. 3201-008-F-156  
REV. NO. \_\_\_\_\_

DATES REPORTED TO: PROJECT TEAM/PROJECT MGR. 4/10/84 PRINCIPAL-IN-CHARGE 4/10/84  
SRT 4/10/84 CPC/DESIGN ORG. \_\_\_\_\_

STRUCTURE(S), SYSTEMS(S), OR COMPONENT(S) INVOLVED:  
AFW System Piping

**DESCRIPTION OF FINDING:**

Dwg.C-143(Q) Rev. 12 allows for loads and load combinations on embedded channels that induce stresses exceeding the allowable.

**SIGNIFICANCE OF FINDING:**

Design drawing allows for generic design not meeting acceptance criteria. Embedded channels may be overstressed.

**RECOMMENDATION:**

Review Bechtel correction of referenced drawing and supporting calc. Assess impact on existing channels.

**COMMENTS BY SRT (IF REQUIRED):**

**REFERENCES (INCL. RELATED OCR ITEM REPORT NO.):**

CALC Q52(Q) Rev. 3  
Dwg. C-143(Q), Rev. 12                      OCR 3201-008-C-156

**SIGNATURE(S):**

JAM  
FINDING REPORT  
ORIGINATOR (LTR)  
4/10/84  
DATE

HAL  
PROJECT MANAGER  
FOR PROJECT TEAM  
4/10/84  
DATE

JWB  
PRINCIPAL-IN-CHARGE  
4/10/84  
DATE

DKD  
SRT (IF REQUIRED)  
4/10/84  
DATE

**MIDLAND INDEPENDENT DESIGN AND CONSTRUCTION VERIFICATION  
FINDING REPORT**

CLASS: SAFETY X NON-SAFETY \_\_\_\_\_

FILE NO. 3201-008  
DOC NO. 3201-008-F - 171  
REV. NO. \_\_\_\_\_

DATES REPORTED TO: PROJECT TEAM/PROJECT MGR. 4/10/84 PRINCIPAL-IN-CHARGE 4/10/84  
SRT 4/10/84 CPC/DESIGN ORG. \_\_\_\_\_

**STRUCTURE(S), SYSTEMS(S), OR COMPONENT(S) INVOLVED:**

Auxiliary Building, AFW & CR-HVAC System & Components

**DESCRIPTION OF FINDING:**

The procedure followed to calculate the stresses resulting from thermal gradients in slabs and walls results in an underestimation of stresses. The applied thermal loading gradient is averaged across the cross-section, producing a net zero thermal stress contribution.

**SIGNIFICANCE OF FINDING:**

Some walls and slabs may be overstressed when the correct thermal loads are applied. Code load combinations and acceptance criteria may not be met.

**RECOMMENDATION:**

Bechtel has concurred (meetings on March 1, 1984 and May 3, 1984) that the noted procedure is deficient and has initiated an evaluation to assess the significance. IDVP personnel should review the evaluation when complete. A schedule for completion will be provided to TERA by the end of May.

**COMMENTS BY SRT (IF REQUIRED):**

**REFERENCES (INCL. RELATED OCR ITEM REPORT NO.):**

CALC DQ-59.2  
OCR 3201-008-C-117.4

**SIGNATURE(S):**

JAM

FINDING REPORT  
ORIGINATOR (LTR)

4/10/84

DATE

HAL

PROJECT MANAGER  
FOR PROJECT TEAM

4/10/84

DATE

JWB

PRINCIPAL-IN-CHARGE

4/10/84

DATE

DKD

SRT (IF REQUIRED)

4/10/84

DATE

**MIDLAND INDEPENDENT DESIGN AND CONSTRUCTION VERIFICATION  
OPEN, CONFIRMED AND RESOLVED (OCR) ITEM REPORT**

TYPE OF REPORT: OPEN \_\_\_\_\_ CONFIRMED X  
RESOLVED \_\_\_\_\_ ITEM

FILE NO. 3201-008  
DOC NO. 3201-008-C.172  
REV. NO. \_\_\_\_\_

DATES REPORTED TO: LTR 4/26/84 SRT \_\_\_\_\_ PROJECT TEAM/PROJECT MGR. 5/1/84  
PRINCIPAL-IN-CHARGE 5/10/84 CPC/DESIGN ORG. \_\_\_\_\_

**STRUCTURE(S), SYSTEM(S), OR COMPONENT(S) INVOLVED:**

Standby Electric Power

**IDCV PROGRAM AREA OR TASK (IF APPLICABLE):**

Topic I.16-2 - Electrical Characteristics (PDS)

**DESCRIPTION OF CONCERN:** Short circuit calculation, QPE-2, Rev. 2, concludes that  
1) DG 1G11 cannot be tested when transformer 1X02 is spared (not in operation) and  
Unit 2 is starting up; 2) Type AK-25, 600A breakers without instantaneous trips are  
inadequate. These limitations are not identified in the FSAR. There appears  
to be no mechanism to insure that the limitations identified in QPE-2, Rev. 2, are  
implemented. Also, the applicability of the DG restriction to 2G11 is not stated.

**SIGNIFICANCE OF CONCERN:**

The potential exists for exceeding the design ratings of certain electrical equipment.  
Without suitable means to document limitations, such as in the FSAR, future actions  
may be taken without realizing the inherent limitations of the electrical power  
system.

RECOMMENDATION X OR RESOLUTION \_\_\_\_\_:

Process per PQAP.

**COMMENTS BY SRT (IF REQUIRED):**

**REFERENCES (INCL. RELATED OCR ITEM REPORT NO.):**

FSAR section 8.3.1.1.8, Interrupting Capacities, Rev. 49

**SIGNATURE(S):**

GAR	GES	HAL	DKD	_____
OCR ITEM REPORT ORIGINATOR	LTR	PROJECT MANAGER FOR PROJECT TEAM	PRINCIPAL- IN-CHARGE	SRT (IF REQUIRED)
<u>4/26/84</u>	<u>4/30/84</u>	<u>5/10/84</u>	<u>5/10/84</u>	_____
DATE	DATE	DATE	DATE	DATE

# ATTACHMENT 4

## OCR/FINDING STATUS SUMMARY MSR 12 (5/16/84)

### REVIEW CATEGORY

<u>OCR/Finding Type</u>	<u>AFW System Performance Requirements</u>	<u>CR-HVAC System Performance Requirements</u>	<u>SEP System Performance Requirements</u>	<u>System Protection Features</u>	<u>Structures That House The Systems (Civil/Structural)</u>	<u>Construction Verification</u>	<u>Totals</u>
<u>Active Status</u>							
Open Items	4 (4)	1 (2)	2 (2)	1 (1)	2 (2)	2 (2)	12 (13)
Confirmed Items	1 (1)	3 (3)	13 (12)	9 (9)	23 (24)	0 (0)	49 (49)
Findings	<u>0 (0)</u>	<u>0 (0)</u>	<u>0 (0)</u>	<u>0 (0)</u>	<u>4 (2)</u>	<u>10 (10)</u>	<u>14 (12)</u>
Subtotals	5 (5)	4 (5)	15 (14)	10 (10)	29 (28)	12 (12)	75 (74)
<u>Inactive Status (Dispositioned)</u>							
Resolved Items	28 (28)	10 (9)	3 (3)	6 (6)	10 (10)	4 (4)	61 (60)
Resolved Findings	3 (3)	0 (0)	0 (0)	0 (0)	0 (0)	7 (7)	10 (10)
Observations	<u>8 (8)</u>	<u>6 (6)</u>	<u>5 (5)</u>	<u>4 (4)</u>	<u>3 (3)</u>	<u>0 (0)</u>	<u>26 (26)</u>
Subtotals	39 (39)	16 (15)	8 (8)	10 (10)	13 (13)	11 (11)	97 (96)
Totals	44 (44)	20 (20)	23 (22)	20 (20)	42 (41)	23 (23)	172 (170)

### Notes:

- Figures in parentheses are from previous Monthly Status Report (MSR 11).
- Review categories correspond to IDV and ICV scope matrices and the currently planned sequence of IDCVP topical reports. The AFW, CR-HVAC, and SEP System Performance Requirements categories include all topics under Roman I of the respective IDV scope matrices. The System Protection Features and Civil/Structural categories include all topics under Roman II and III, respectively, for the combination of all systems. The Construction Verification category includes all ICV topics.